

IN THE CLAIMS

Please replace all prior versions, and listings, of claims in the application with the following list of claims. Additions are indicated by underlining and deletions are indicated by strikeouts and/or double bracketing.

1-150. (Cancelled)

151. (Currently amended) ~~The A method of claim 149, comprising:~~

preparing a randomly primed PCR-derived reduced complexity genome (RCG) using at least one polymerase chain reaction (PCR) primer, wherein the RCG contains less than 1% of genomic material present in a whole genome,

contacting single nucleotide polymorphisms – allele specific oligonucleotides (SNP-ASOs) immobilized on a surface with the RCG under hybridization conditions, wherein polymorphic loci corresponding to the SNP-ASOs are present with a frequency of at least 50% in a RCG made using the at least one PCR primer and

determining the presence or absence of a SNP allele in the RCG by hybridization of the RCG with a SNP-ASO to identify a genotype.

152. (Currently amended) ~~The A method of claim 149, comprising:~~

preparing a randomly primed PCR-derived reduced complexity genome (RCG) using at least one polymerase chain reaction (PCR) primer, wherein the RCG contains less than 0.05% of genomic material present in a whole genome,

contacting single nucleotide polymorphisms – allele specific oligonucleotides (SNP-ASOs) immobilized on a surface with the RCG under hybridization conditions, wherein polymorphic loci corresponding to the SNP-ASOs are present with a frequency of at least 50% in a RCG made using the at least one PCR primer and

determining the presence or absence of a SNP allele in the RCG by hybridization of the RCG with a SNP-ASO to identify a genotype.

153. (Currently amended) The method of any one of claims ~~149-150~~ 151-152, wherein the at least one PCR primer is a primer for degenerate oligonucleotide priming-PCR (DOP-PCR).
154. (Currently amended) The method of any one of claims ~~149-150~~ 151-152, wherein the at least one PCR primer is a primer for adapter-PCR.
155. (Currently amended) The method of claim ~~149~~ 151, wherein the SNP-ASOs are composed of between 10 and 50 nucleotide residues.
156. (Currently amended) The method of claim ~~149~~ 151, wherein the SNP-ASOs are composed of between 10 and 25 nucleotide residues.
- 157-166. (Cancelled)